

*LP-2264
ECP*

24 February 1966

Dear Joe:

1. The Contractor is hereby directed to comply with the provisions of the following Engineering Change Proposals pursuant to the "Changes" clause of Contract No. LP-2264:

- a) ECP GR-52
- b) ECP GR-55

Additionally, the Contractor will submit firm quotations within 30 days after receipt of this approval.

2. For those portions of the ECP's requiring retrofit action, the Contractor will notify the PSO of quantities and schedules proposed and arrange for a mutually agreeable retrofit schedule.

Wendell

STATINTL

cc:

OSA - 0940-66

cy 10F-2

17 FEB 1966

Subject: ECPs GR-52 and 55, Contracts LP-2264
and CW-6644

Dear Chuck,

Subject ECPs are technically approved by the SPO. Both were found necessary as a result of Cat I and II test experience. Request you provide [redacted] with formal approval STATINTL for these changes. Specific comments on these ECPs are:

STATINTL

ECP 52 - Incorporation of this change is necessary to operate the [redacted] above its current altitude limitation (80,000 ft for user). Estimated service contract cost is \$1087 (15 kits at \$72.50).

STATINTL

ECP 55 - The PSO, user and [redacted] should establish a mutually acceptable schedule for return of synchronizers to the SRA for rework. Estimated service contract cost is \$1438 (21 kits at \$73.24).

Regards,



STATINTL Copy: [redacted]

GA - 531		ENGINEERING STUDY <input type="checkbox"/> CHANGE PROPOSAL <input checked="" type="checkbox"/>	GR - 52							
DATE 18 January 1966		AFFECTS: GA-531A <input type="text"/>	STATINTL							
NAME OF MAJOR COMPONENT Antenna Beam		PART OR LOWEST SUBASSEMBLY R.F. Absorber Assembly Lower Beam	PART NO. MODEL OR TYPE 531A000-038-101 (old) 531A000-038-103 (new)							
TITLE OF PROPOSAL: Prevent Antenna Corona Damage										
NATURE OF PROPOSAL: Ref: REW KP-I-233										
<p>1. Add R.F. Absorber material to front end of Lower Beam R.F. Absorber Assembly. Change P/N from 531A000-038-101 to P/N 531A000-038-103.</p>										
REASON FOR PROPOSAL: To prevent holes from being burned into the antenna teflon coating due to corona caused by RF reflection from the front end of the beam. This change enables operation at high cavity altitudes and temperatures.										
ES	ESTIMATED COST AND TIME INVOLVED:									
ADDITIONAL FUNDING REQUIRED:										
CP	ESTIMATED COST FOR KITS OR PARTS: \$72.50									
ADDITIONAL FUNDING REQUIRED: \$6338.57 (includes \$4381.07 Engineering)										
ITEMS AFFECTED BY PROPOSAL: Vehicle Installation Kit #20 and subs in line. Supply Installation kits 9 thru 19 and 1 thru 4 with add'l RF Kit										
SAFETY <input type="checkbox"/>	MISSION EFFEC-TIVENESS <input checked="" type="checkbox"/>	PERFORM-ANCE <input checked="" type="checkbox"/>	OPERATING PROCEDURE <input type="checkbox"/>	INTER-CHANGE-ABILITY <input type="checkbox"/>	WEIGHT OR WEIGHT AND BALANCE <input type="checkbox"/>	TOOLS AND SUPPORT EQUIPMENT <input type="checkbox"/>	MAINTENANCE PROCEDURE <input type="checkbox"/>	SERVICE LIFE <input checked="" type="checkbox"/>	FLIGHT MANUAL <input type="checkbox"/>	MAINTENANCE MANUAL <input type="checkbox"/>
ESTIMATED MAN HOURS REQUIRED TO ACCOMPLISH CHANGE IN FIELD: 4 hours to install additional RF material to lower beam.										
SOURCE OF PARTS FOR KIT: GR				AVAILABILITY — 6 WEEKS AFTER APPROVAL						
DISPOSITION OF SPARES AFFECTED: PPB to be changed by C/N to PSO.				Spares to be reworked to latest configuration.						
INITIATED BY <input type="text"/>				LIBRARY <input type="text"/>						

GA - 531				ENGINEERING STUDY CHANGE PROPOSAL		<input type="checkbox"/>	<input checked="" type="checkbox"/>	GR - 55 Page 1 of 2			
DATE 28 January 1966		AFFECTS: GA-531		STATINTL							
NAME OF MAJOR COMPONENT Synchronizer		PART OR LOWEST SUBASSEMBLY Approx Multi PC Board Assy and STC Range Scaling P.C. Board				PART NO. MODEL OR TYPE 531A507-001-105(new) 531A507-001-101(old) 531A537-001-105(new) 531A537-001-101(old)					
TITLE OF PROPOSAL:		1. Provide an Increase in C.L. Loop Gain.				2. Revise STC Curves for Modes 1, 2, 12 and 13					
NATURE OF PROPOSAL: See GR-55, Page 2 of 2											
REASON FOR PROPOSAL: Item 1: To reduce map degradation due to vehicle motions which exceed the clutterlock response time. Item 2: To obtain more uniform ground paint on final map by changing receiver gain in modes 1, 2, 12, and 13.											
ES	ESTIMATED COST AND TIME INVOLVED:										
	ADDITIONAL FUNDING REQUIRED:										
CP	ESTIMATED COST FOR KITS OR PARTS: \$73.24/Kit (Costs applicable to Item 1 ONLY) ADDITIONAL FUNDING REQUIRED: \$3,377.00 (Including \$1,839.00 Engineering)										
	ITEMS AFFECTED BY PROPOSAL: Production units S/N 5001-22 and subs in-line. Units S/N 5001-1 thru 21 will be reworked SRA.-										
SAFETY	MISSION EFFECTIVENESS	PERFORM- ANCE	OPERATING PROCEDURE	INTER- CHANGE- ABILITY	WEIGHT OR WEIGHT AND BALANCE	TOOLS AND SUPPORT EQUIPMENT	MAINTEN- ANCE PROCEDURE	SERVICE LIFE	FLIGHT MANUAL	MAINTEN- ANCE MANUAL	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
ESTIMATED MAN HOURS REQUIRED TO ACCOMPLISH CHANGE IN FIELD: Item 1: 30 min disassemble; 30 min rework; 30 min assemble; 1 hr Test. Item 2: 45 min rework; 3 hr Test assuming rework at same time as Item 1.											
SOURCE OF PARTS FOR KIT: GR					AVAILABILITY <u>12</u> WEEKS AFTER APPROVAL						
DISPOSITION OF SPARES AFFECTED: Spares will be reworked to the latest configuration. PPB will be revised by Change Notice to PSO.											
INITIALS		APPROVED									

GA-531

CHANGE PROPOSAL

GR-55

Page 2 of 2

Date: 28 January 1966

Affects: GA-531

STATINTL

NATURE OF PROPOSAL:

REF: REW KP-I-241 and KP-I-242

Item 1: Approx Multiplier P.C. Board.

Change resistors R30 and R35 from RN60C3322F to RN60C1502F.
Change resistors R5 and R6 from RN60C6810F to RN60C3920F.
Change Approx Multi P.C. Board Ass'y from P/N 531A507-001-101
to new P/N 531A507-001-105.

Item 2: STC Range Scaling P.C. Board Assembly

Change resistor R43 from RN60C1872F to RN60C2262F.
Change resistor R5 from RN60C7321F to RN60C8251F.
Change resistor R25 from RN60C1742F to RN60C2212F.
Change resistor R1 from RN60C8061F to RN60C1072F.
Change resistor R33 from RN60C1652F to RN60C1872F.
Change resistor R15 from RN60C1242F to RN60C1332F.
Change resistor R13 from RN60C7151F to RN60C1332F.
Change STC P.C. Board Assembly P/N from 531A537-001-101 to
531A537-001-105.

A Mod No. will be assigned to the 531A500-001-103 Synchronizer Unit
with this change.